

## PROJECT DETAILS: Garfield County, CO (Nad 83)

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Colorado Central Zone  
 System Datum: Mean Sea Level

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SR 524-13 - Slot (A02) SR 524-13, True North  
 Vertical (TVD) Reference: KB=30' @ 8037.00usft (H&P #329)  
 Section (VS) Reference: Slot - (A02) SR 524-13(0.00N, 0.00E)  
 Measured Depth Reference: KB=30' @ 8037.00usft (H&P #329)  
 Calculation Method: Minimum Curvature

## WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SR 524-13 - VP	7071.00	-1111.93	-2432.59	1590913.60	2339725.00	39.432498	-107.837886	Circle (Radius: 50.00)
SR 524-13 - PBHL	10291.00	-1111.93	-2432.59	1590913.60	2339725.00	39.432498	-107.837886	Point

## ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
160.00	0.00	0.00	160.00	0.00	0.00	0.00	0.00	Start Build 3.00
326.67	5.00	230.00	326.46	-4.67	-5.57	7.01	7.27	Start DLS 3.00 TFO 19.16
1017.40	25.50	245.65	989.49	-86.20	-165.82	186.64	187.32	Start 4916.09 hold at 1017.40 MD
5933.49	25.50	245.65	5426.84	-958.58	-2093.71	2302.71	2303.40	Start Drop -1.50
7633.19	0.00	0.00	7071.00	-1111.93	-2432.59	2674.68	2675.37	Start 3220.00 hold at 7633.19 MD
10853.19	0.00	0.00	10291.00	-1111.93	-2432.59	2674.68	2675.37	TD at 10853.19

## WELL DETAILS: SR 524-13

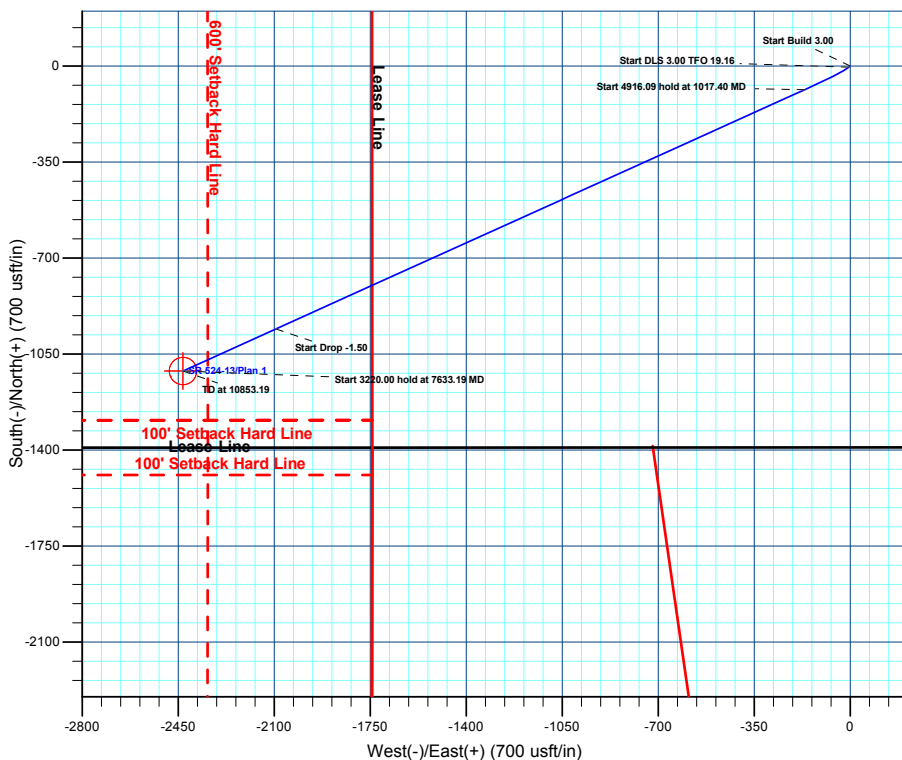
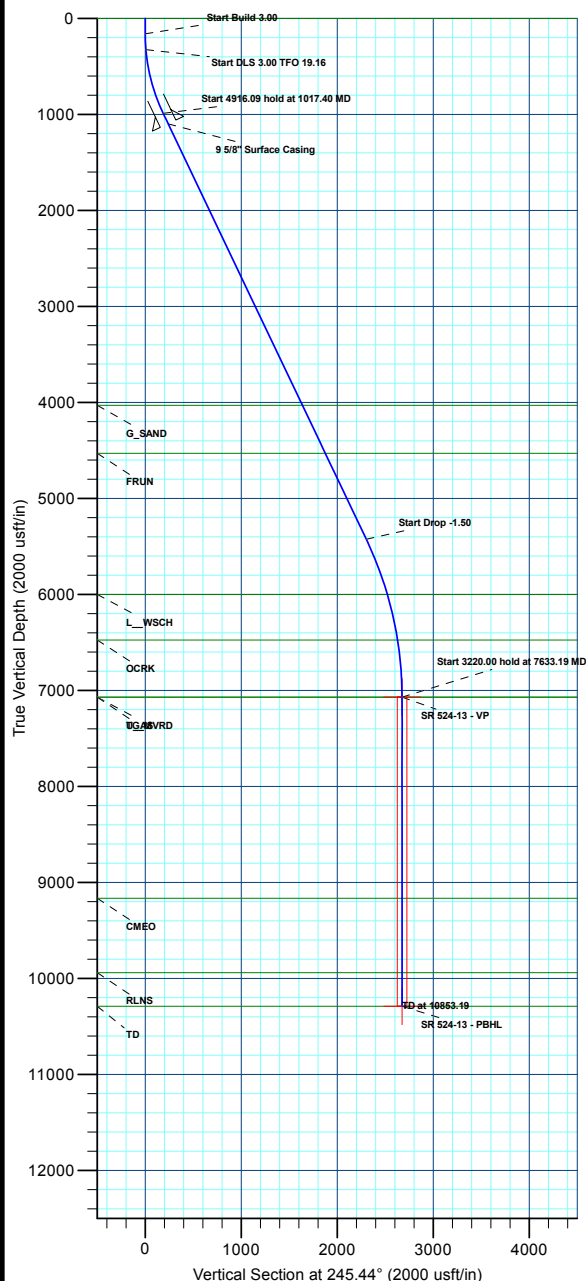
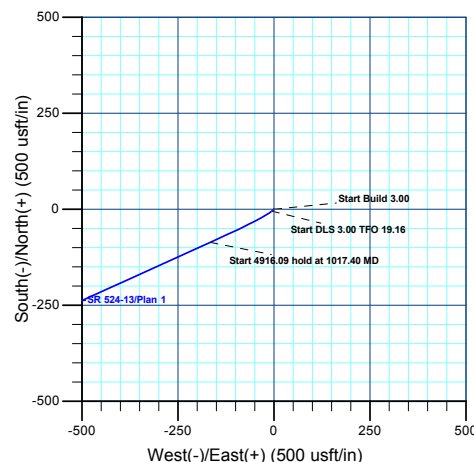
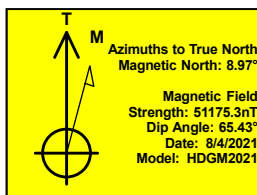
		Ground Elev:		8007.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1591962.80	2342185.30	39.435551	-107.829274	(A02) SR 524-13

## CASING DETAILS

TVD	MD	Name	Size
1100.00	1139.84	9 5/8" Surface Casing	9-5/8

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
0.00	0.00	U_WSCH
4031.00	4387.06	G_SAND
4531.00	4941.00	FRUN
6001.00	6548.68	L_WSCH
6476.00	7035.76	OCRK
7071.00	7633.19	TGAS
7071.00	7633.19	U_MVRD
9167.00	9729.19	CMEO
9941.00	10503.19	RLNS
10291.00	10853.19	TD



Plan: Plan 1 (SR 524-13/Wellbore #1)

Created By: Chase Chambers Date: 13:01, April 19 2022



## **Terra Energy Partners, LLP**

**Garfield County, CO (Nad 83)**

**S. Leverich 13-09 Pad**

**SR 524-13 - Slot (A02) SR 524-13**

**Wellbore #1**

**Plan: Plan 1**

## **KLX Well Planning Report**

**15 February, 2022**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SR 524-13 - Slot (A02) SR 524-13
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 524-13	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

<b>Project</b>	Garfield County, CO (Nad 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		S. Leverich 13-09 Pad			
Site Position: From:	Map	Northing:	1,591,962.80 usft	Latitude:	39.435551
		Easting:	2,342,185.30 usft	Longitude:	-107.829274
		Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "

Well	SR 524-13 - Slot (A02) SR 524-13					
Well Position	+N/-S	0.00 usft	Northing:	1,591,962.80 usft	Latitude:	39.435551
	+E/-W	0.00 usft	Easting:	2,342,185.30 usft	Longitude:	-107.829274
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	8,007.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	HDGM2021	8/4/2021	8.97	65.43	51,175.30000000

<b>Design</b>	Plan 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	245.44

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
160.00	0.00	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00	
326.67	5.00	230.00	326.46	-4.67	-5.57	3.00	3.00	0.00	230.00	
1,017.40	25.50	245.65	989.49	-86.20	-165.82	3.00	2.97	2.27	19.16	
5,933.49	25.50	245.65	5,426.84	-958.58	-2,093.71	0.00	0.00	0.00	0.00	
7,633.19	0.00	0.00	7,071.00	-1,111.93	-2,432.59	1.50	-1.50	0.00	180.00	SR 524-13 - VP
10,853.19	0.00	0.00	10,291.00	-1,111.93	-2,432.59	0.00	0.00	0.00	0.00	SR 524-13 - PBHL

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<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 524-13	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>U_WSCH</b>									
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 3.00</b>									
160.00	0.00	0.00	160.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.20	230.00	200.00	-0.27	-0.32	0.40	3.00	3.00	0.00
300.00	4.20	230.00	299.87	-3.30	-3.93	4.94	3.00	3.00	0.00
<b>Start DLS 3.00 TFO 19.16</b>									
326.67	5.00	230.00	326.46	-4.67	-5.57	7.01	3.00	3.00	0.00
400.00	7.11	235.84	399.38	-9.28	-11.77	14.56	3.00	2.88	7.96
500.00	10.06	239.81	498.24	-17.15	-24.45	29.36	3.00	2.94	3.97
600.00	13.03	241.99	596.21	-26.83	-41.95	49.31	3.00	2.97	2.18
700.00	16.01	243.37	693.01	-38.31	-64.23	74.34	3.00	2.98	1.38
800.00	18.99	244.32	788.37	-51.54	-91.22	104.39	3.00	2.99	0.96
900.00	21.98	245.03	882.04	-66.50	-122.86	139.39	3.00	2.99	0.70
1,000.00	24.97	245.57	973.75	-83.13	-159.06	179.22	3.00	2.99	0.54
<b>Start 4916.09 hold at 1017.40 MD</b>									
1,017.40	25.50	245.65	989.49	-86.20	-165.82	186.64	3.00	2.99	0.47
1,100.00	25.50	245.65	1,064.04	-100.86	-198.21	222.20	0.00	0.00	0.00
<b>9 5/8" Surface Casing</b>									
1,139.84	25.50	245.65	1,100.00	-107.92	-213.83	239.34	0.00	0.00	0.00
1,200.00	25.50	245.65	1,154.30	-118.60	-237.42	265.24	0.00	0.00	0.00
1,300.00	25.50	245.65	1,244.57	-136.35	-276.64	308.28	0.00	0.00	0.00
1,400.00	25.50	245.65	1,334.83	-154.09	-315.86	351.33	0.00	0.00	0.00
1,500.00	25.50	245.65	1,425.09	-171.84	-355.07	394.37	0.00	0.00	0.00
1,600.00	25.50	245.65	1,515.35	-189.58	-394.29	437.41	0.00	0.00	0.00
1,700.00	25.50	245.65	1,605.61	-207.33	-433.50	480.46	0.00	0.00	0.00
1,800.00	25.50	245.65	1,695.87	-225.07	-472.72	523.50	0.00	0.00	0.00
1,900.00	25.50	245.65	1,786.14	-242.82	-511.94	566.55	0.00	0.00	0.00
2,000.00	25.50	245.65	1,876.40	-260.56	-551.15	609.59	0.00	0.00	0.00
2,100.00	25.50	245.65	1,966.66	-278.31	-590.37	652.63	0.00	0.00	0.00
2,200.00	25.50	245.65	2,056.92	-296.06	-629.58	695.68	0.00	0.00	0.00
2,300.00	25.50	245.65	2,147.18	-313.80	-668.80	738.72	0.00	0.00	0.00
2,400.00	25.50	245.65	2,237.45	-331.55	-708.01	781.76	0.00	0.00	0.00
2,500.00	25.50	245.65	2,327.71	-349.29	-747.23	824.81	0.00	0.00	0.00
2,600.00	25.50	245.65	2,417.97	-367.04	-786.45	867.85	0.00	0.00	0.00
2,700.00	25.50	245.65	2,508.23	-384.78	-825.66	910.90	0.00	0.00	0.00
2,800.00	25.50	245.65	2,598.49	-402.53	-864.88	953.94	0.00	0.00	0.00
2,900.00	25.50	245.65	2,688.76	-420.27	-904.09	996.98	0.00	0.00	0.00
3,000.00	25.50	245.65	2,779.02	-438.02	-943.31	1,040.03	0.00	0.00	0.00
3,100.00	25.50	245.65	2,869.28	-455.76	-982.53	1,083.07	0.00	0.00	0.00
3,200.00	25.50	245.65	2,959.54	-473.51	-1,021.74	1,126.12	0.00	0.00	0.00
3,300.00	25.50	245.65	3,049.80	-491.26	-1,060.96	1,169.16	0.00	0.00	0.00
3,400.00	25.50	245.65	3,140.06	-509.00	-1,100.17	1,212.20	0.00	0.00	0.00
3,500.00	25.50	245.65	3,230.33	-526.75	-1,139.39	1,255.25	0.00	0.00	0.00
3,600.00	25.50	245.65	3,320.59	-544.49	-1,178.61	1,298.29	0.00	0.00	0.00
3,700.00	25.50	245.65	3,410.85	-562.24	-1,217.82	1,341.33	0.00	0.00	0.00
3,800.00	25.50	245.65	3,501.11	-579.98	-1,257.04	1,384.38	0.00	0.00	0.00
3,900.00	25.50	245.65	3,591.37	-597.73	-1,296.25	1,427.42	0.00	0.00	0.00
4,000.00	25.50	245.65	3,681.64	-615.47	-1,335.47	1,470.47	0.00	0.00	0.00
4,100.00	25.50	245.65	3,771.90	-633.22	-1,374.69	1,513.51	0.00	0.00	0.00
4,200.00	25.50	245.65	3,862.16	-650.97	-1,413.90	1,556.55	0.00	0.00	0.00
4,300.00	25.50	245.65	3,952.42	-668.71	-1,453.12	1,599.60	0.00	0.00	0.00

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<b>Well:</b>	SR 524-13	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>G_SAND</b>									
4,387.06	25.50	245.65	4,031.00	-684.16	-1,487.26	1,637.07	0.00	0.00	0.00
4,400.00	25.50	245.65	4,042.68	-686.46	-1,492.33	1,642.64	0.00	0.00	0.00
4,500.00	25.50	245.65	4,132.95	-704.20	-1,531.55	1,685.68	0.00	0.00	0.00
4,600.00	25.50	245.65	4,223.21	-721.95	-1,570.77	1,728.73	0.00	0.00	0.00
4,700.00	25.50	245.65	4,313.47	-739.69	-1,609.98	1,771.77	0.00	0.00	0.00
4,800.00	25.50	245.65	4,403.73	-757.44	-1,649.20	1,814.82	0.00	0.00	0.00
4,900.00	25.50	245.65	4,493.99	-775.18	-1,688.41	1,857.86	0.00	0.00	0.00
<b>FRUN</b>									
4,941.00	25.50	245.65	4,531.00	-782.46	-1,704.49	1,875.51	0.00	0.00	0.00
5,000.00	25.50	245.65	4,584.25	-792.93	-1,727.63	1,900.90	0.00	0.00	0.00
5,100.00	25.50	245.65	4,674.52	-810.67	-1,766.85	1,943.95	0.00	0.00	0.00
5,200.00	25.50	245.65	4,764.78	-828.42	-1,806.06	1,986.99	0.00	0.00	0.00
5,300.00	25.50	245.65	4,855.04	-846.17	-1,845.28	2,030.03	0.00	0.00	0.00
5,400.00	25.50	245.65	4,945.30	-863.91	-1,884.49	2,073.08	0.00	0.00	0.00
5,500.00	25.50	245.65	5,035.56	-881.66	-1,923.71	2,116.12	0.00	0.00	0.00
5,600.00	25.50	245.65	5,125.83	-899.40	-1,962.93	2,159.17	0.00	0.00	0.00
5,700.00	25.50	245.65	5,216.09	-917.15	-2,002.14	2,202.21	0.00	0.00	0.00
5,800.00	25.50	245.65	5,306.35	-934.89	-2,041.36	2,245.25	0.00	0.00	0.00
5,900.00	25.50	245.65	5,396.61	-952.64	-2,080.57	2,288.30	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
5,933.49	25.50	245.65	5,426.84	-958.58	-2,093.71	2,302.71	0.00	0.00	0.00
6,000.00	24.50	245.65	5,487.12	-970.17	-2,119.31	2,330.82	1.50	-1.50	0.00
6,100.00	23.00	245.65	5,578.65	-986.77	-2,156.00	2,371.09	1.50	-1.50	0.00
6,200.00	21.50	245.65	5,671.20	-1,002.38	-2,190.49	2,408.95	1.50	-1.50	0.00
6,300.00	20.00	245.65	5,764.71	-1,016.98	-2,222.77	2,444.37	1.50	-1.50	0.00
6,400.00	18.50	245.65	5,859.12	-1,030.57	-2,252.80	2,477.34	1.50	-1.50	0.00
6,500.00	17.00	245.65	5,954.36	-1,043.14	-2,280.57	2,507.82	1.50	-1.50	0.00
<b>L_WSCH</b>									
6,548.68	16.27	245.65	6,001.00	-1,048.88	-2,293.27	2,521.75	1.50	-1.50	0.00
6,600.00	15.50	245.65	6,050.36	-1,054.67	-2,306.06	2,535.80	1.50	-1.50	0.00
6,700.00	14.00	245.65	6,147.07	-1,065.17	-2,329.25	2,561.25	1.50	-1.50	0.00
6,800.00	12.50	245.65	6,244.40	-1,074.62	-2,350.13	2,584.17	1.50	-1.50	0.00
6,900.00	11.00	245.65	6,342.30	-1,083.01	-2,368.68	2,604.53	1.50	-1.50	0.00
7,000.00	9.50	245.65	6,440.71	-1,090.34	-2,384.89	2,622.32	1.50	-1.50	0.00
<b>OCRK</b>									
7,035.76	8.96	245.65	6,476.00	-1,092.71	-2,390.11	2,628.05	1.50	-1.50	0.00
7,100.00	8.00	245.65	6,539.54	-1,096.61	-2,398.74	2,637.52	1.50	-1.50	0.00
7,200.00	6.50	245.65	6,638.74	-1,101.81	-2,410.24	2,650.14	1.50	-1.50	0.00
7,300.00	5.00	245.65	6,738.23	-1,105.94	-2,419.36	2,660.15	1.50	-1.50	0.00
7,400.00	3.50	245.65	6,837.96	-1,109.00	-2,426.11	2,667.56	1.50	-1.50	0.00
7,500.00	2.00	245.65	6,937.84	-1,110.97	-2,430.48	2,672.36	1.50	-1.50	0.00
7,600.00	0.50	245.65	7,037.81	-1,111.87	-2,432.46	2,674.53	1.50	-1.50	0.00
<b>Start 3220.00 hold at 7633.19 MD - U_MVRD - TGAS</b>									
7,633.19	0.00	0.00	7,071.00	-1,111.93	-2,432.59	2,674.68	1.50	-1.50	0.00
7,700.00	0.00	0.00	7,137.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
7,800.00	0.00	0.00	7,237.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
7,900.00	0.00	0.00	7,337.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,000.00	0.00	0.00	7,437.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,100.00	0.00	0.00	7,537.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,200.00	0.00	0.00	7,637.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,300.00	0.00	0.00	7,737.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,400.00	0.00	0.00	7,837.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SR 524-13 - Slot (A02) SR 524-13
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 524-13	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,500.00	0.00	0.00	7,937.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,600.00	0.00	0.00	8,037.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,700.00	0.00	0.00	8,137.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,800.00	0.00	0.00	8,237.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
8,900.00	0.00	0.00	8,337.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,000.00	0.00	0.00	8,437.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,100.00	0.00	0.00	8,537.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,200.00	0.00	0.00	8,637.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,300.00	0.00	0.00	8,737.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,400.00	0.00	0.00	8,837.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,500.00	0.00	0.00	8,937.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,600.00	0.00	0.00	9,037.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,700.00	0.00	0.00	9,137.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
<b>CMEO</b>									
9,729.19	0.00	0.00	9,167.00	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,800.00	0.00	0.00	9,237.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
9,900.00	0.00	0.00	9,337.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,000.00	0.00	0.00	9,437.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,100.00	0.00	0.00	9,537.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,200.00	0.00	0.00	9,637.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,300.00	0.00	0.00	9,737.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,400.00	0.00	0.00	9,837.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,500.00	0.00	0.00	9,937.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
<b>RLNS</b>									
10,503.19	0.00	0.00	9,941.00	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,600.00	0.00	0.00	10,037.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,700.00	0.00	0.00	10,137.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
10,800.00	0.00	0.00	10,237.81	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00
<b>TD at 10853.19 - TD</b>									
10,853.19	0.00	0.00	10,291.00	-1,111.93	-2,432.59	2,674.68	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SR 524-13 - VP	0.00	0.00	7,071.00	-1,111.93	-2,432.59	1,590,913.60	2,339,725.00	39.432498	-107.837887
- plan hits target center									
- Circle (radius 50.00)									
SR 524-13 - PBHL	0.00	0.00	10,291.00	-1,111.93	-2,432.59	1,590,913.60	2,339,725.00	39.432498	-107.837887
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,139.84	1,100.00	9 5/8" Surface Casing	9-5/8	12-1/4	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well SR 524-13 - Slot (A02) SR 524-13
<b>Company:</b>	Terra Energy Partners, LLP	<b>TVD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Project:</b>	Garfield County, CO (Nad 83)	<b>MD Reference:</b>	KB=30' @ 8037.00usft (H&P #329)
<b>Site:</b>	S. Leverich 13-09 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SR 524-13	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
0.00	0.00	U__WSCH		0.00	
4,387.06	4,031.00	G_SAND			
4,941.00	4,531.00	FRUN			
6,548.68	6,001.00	L__WSCH			
7,035.76	6,476.00	OCRK			
7,633.19	7,071.00	U__MVRD			
7,633.19	7,071.00	TGAS			
9,729.19	9,167.00	CMEO			
10,503.19	9,941.00	RLNS			
10,853.19	10,291.00	TD		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
160.00	160.00	0.00	0.00	Start Build 3.00
326.67	326.46	-4.67	-5.57	Start DLS 3.00 TFO 19.16
1,017.40	989.49	-86.20	-165.82	Start 4916.09 hold at 1017.40 MD
5,933.49	5,426.84	-958.58	-2,093.71	Start Drop -1.50
7,633.19	7,071.00	-1,111.93	-2,432.59	Start 3220.00 hold at 7633.19 MD
10,853.19	10,291.00	-1,111.93	-2,432.59	TD at 10853.19